[ANARTS - Australian National Amateur Radio Teletype Society]

This is the Australian National Amateur Radio Teleprinter Society
with our weekly Rtty bulletin. We transmit on the following
frequencies and times :

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  3.545 MHz (Plus/minus 5)   0930 UTC     VK2CTD (COL)
  7.045 MHz  -3              0030 UTC     VK2CTD (COL)
 14.070 MHz (amtor/fec)      0030 UTC     VK2DPM (ALAN)
 14.091 MHz                  0030 UTC     VK2DPM (ALAN
146.675 MHz             0030/0930 UTC     VK2JPA (PAT)
144.850 MHz (ax25 bbs)                    VK2JPA AT VK2WI
146.675 MHz (rtty mmbbs/repeater)         VK2RTY

        INTERNET         RADIO-INFO-DIST AT UCSD.EDU
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Views expressed in this news bulletin are not necessarily
those of the Broadcast Officer, the Relay Officers, or of the
Society.

A.N.A.R.T.S. News Bulletin 947 23 February 1997

COLS COLUMN

GOOD MORNING ON THIS FINE SATURDAY MORNING IN SYDNEY TOWN.
TOMORROW THE ANARTS COMMITTEE WILL ALL BE AT THE CENTRAL COAST
FIELD DAY, I HOPE YOU WILL COME ALONG AND SEE US AT THE ANARTS
STAND, AND SEE THE NEW COMPUTER SLIDE SHOW TELLING YOU ALL
ABOUT OUR SOCIETY.

THIS WEEK WE CONTINUE WITH OUR EARLY COMMUNICATIONS SERIES AND
IN PARTICULAR JOSEPH HENRY. YOU WILL RECALL IN EARLIER CASTS
THAT HENRY EXPERIMENTED WITH ELECTROMAGNETS AND BATTERIES, HE
DISCOVERED THE IMPORTANT FACT THAT THE RESISTANCE OF THE LOAD
MUST BE MATCHED TO THE RESISTANCE OF THE POWER SOURCE. THIS
DISCOVERY WAS AND IS OF THE GREATEST IMPORTANCE IN
COMMUNICATIONS ENGINEERING. A LONG LAND LINE CONNECTING TWO
STATIONS SEPERATED BY A LONG DISTANCE HAS A VERY HIGH
RESISTANCE AND SO HIGH RESISTANCE RECEIVING EQUIPMENT IS
REQUIRED TO TAKE ADVANTAGE OF THE ARRIVING SIGNAL CURRENT.
MODERN INSTALLATIONS USE ALTERNATING CURRENT AND SO
TRANSFORMERS CAN BE USED TO 'MATCH' LOADS. BUT AT THE TIME
THAT HENRY MADE HIS DISCOVERY THE TRANSFORMER WAS NOT YET
INVENTED, IT WOULD COME OVER HALF A CENTURY LATER.

FROM A MODERN VIEWPOINT, THE USE OF MAGNETS AND BATTERIES SEEM
OBVIOUS, YET IGNORANCE OF THE PRINCIPLE INVOLVED HELD UP THE
WORK OF SUCH MEN AS COOKE AND WHEATSTONE UNTIL IT WAS
EXPLAINED TO WHEATSTONE BY HENRY HIMSELF. FARADAY DID NOT KNOW
ABOUT THIS PRINCIPLE YET AND IT ELUDED BARLOW. RONALDS
SUCCEEDED IN TRANSMITTING ALONG 8 MILES BECAUSE HE UNKOWNINGLY
FOLLOWED THIS RULE. A STATIC ELECTRIC MACHINE IS THE EXTREME
EXAMPLE OF A HIGH VOLTAGE, HIGH RESISTANCE POWER SOURCE.
RONALDS DID WHAT HENRY SUGGESTED LATER, HE MATCHED AN
'INTENSITY' SOURCE TO AN 'INTENSITY' DETECTOR AND BOTH SUITED
THE LONG RESISTIVE LINE HE USED.

UNTIL THIS TIME, 1831, THERE WAS NO CLEAR INFORMATION
REGARDING THE DIFFERENCE OF EFFECT OBTAINED USING A SINGLE
CELL WITH LARGE CAPACITY, OR A BATTERY CONSISTING OF A NUMBER
OF SMALLER SEPARATE CELLS CONNECTED ZINC TO COPPER, ZINC TO
COPPER ETC AS WITH THE ORGINAL VOLTAIC PILE. AS WE WOULD NOW

SAY, CONNECTED IN SERIES. AFTER HENRYS WORK IS WAS REALIZED THAT THE RELEVANCE OF THIS INFORMATION DEPENDED UP THE NATURE OF THE CIRCUIT CONNECTED TO THE POWER SOURCE, NO CLEAR IDEA AS YET EXISTED AS TO WHAT EXACTLY THE GALVANOMETER WAS MEASURING.

NEXT WEEK WE WILL CONTINUE WITH HENRY CARRYING OUT FURTHER EXPERIMENTS INCLUDING A CONSTRUCTION OF PROBABLY THE FIRST ELECTRO-MAGNETIC TELEGRAPH AND THE CONSTRUCTION OF PROBABLY THE FIRST ELECTRIC MOTOR.

73S FOR THIS WEEK DE COL VK2CTD, CLUB PRESIDENT

IPS WEEKLY SOLAR AND GEOPHYSICAL REPORT
(14 FEBRUARY - 20 FEBRUARY)

ISSUED ON 21 FEBRUARY 1997

SUMMARY

Date	14	15	16	17	18	19	20
10cm	71	72	72	73	73	72	73
A	6	3	10	14	8	4 (	5 ESTIMATED)
T	19	2	12	0	-18	-0	1

SOLAR ACTIVITY WAS VERY LOW 14TH TO 19TH, AND LOW ON 20TH.

THE GEOMAGNETIC FIELD AT LEARMONTH, W.A. WAS QUIET ON 14TH AND 19TH TO 20TH FEBRUARY ; MOSTLY QUIET ON 15TH; QUIET TO UNSETTLED ON 16TH TO 18TH. THERE WERE BRIEF ACTIVE PERIODS OVERNIGHT ON 15TH TO 17TH.

FREQUENCIES WERE NEAR MOSTLY NEAR PREDICTED MONTHLY VALUES WITH DEPRESSED PERIODS TO 15 PER CENT ON 16TH AND 18TH, AND TO 20 PER CENT ON 17TH.

FORECAST (21 FEBRUARY - 27 FEBRUARY)

SOLAR: lOW TO VERY LOW

GEOMAGNETIC: UNSETTLED TO ACTIVE 22-24 FEB, QUIET TO UNSETTLED DURING OTHER DAYS.

FREQUENCIES: UP TO 30 PER CENT DEPRESSIONS IN MUF'S EXPECTED IN MID TO TO HIGH LATITUDE REGION DURING 22-24 FEBRUARY. POOR NIGHTTIME HF PROPAGATION CONDITIONS EXPECTED DURING THIS PERIOD.

COURTESY OF IPS RADIO AND SPACE SERVICES

RTDX0214 RTTY DX
VK2SG RTTY DXNOTES FOR WEEK ENDING 14 FEB.1997 (BID RTDX0214)

Effective with next week's bulletin, we will have an addition to the staff of the VK2SG RTTY DX NOTES. Randy, WX5L has agreed to participate as an additional editor.

Our information this week came from BARTG News, DJ3IW and the Central Europe DX Cluster DB0SPC, I5FLN and the IK5PWJ Packet Cluster, W5KSI, WB2CJL, WX5L, ARRL DX Bulletin, and the NJ0M node of the Twin Cities DX Packetcluster network.

Friday 7

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1112-14083 7Z1AS
1441-14086 VU2AVG
1446-14086 PJ9/K8NI
1556-14087 VP5/N9CK
1955-14079 XQ8ABF
2016-14085 9Q5PA
2124-14082 ZY0SK QSL via PS7KM. See note
2214-14087 VP2V/WB8ZTY
2221-14082 FG5HI
2312-3586  Z31GX

Saturday 8
0125-14089 PR2A
0210-7039  US9QA
0238-7085  VP2V/WB8ZTY Inverted
0508-3578  S57DX
0743-14083 VK6GOM
0757-14076 AL7R
0858-14092 AL7BB
1219-14074 S21XX
1319-7032  7l4IOU
1319-14085 KG4GC
1540-21081 OD5PL
1602-14080 S53MJ
1615-21093 Z30M
1648-21079 WA8RY/YV5
1700-14088 7X2RO
1706-14087 4U1ITU
1725-14092 LZ8A
1752-14083 T42FRC
1821-21092 XR8S
1900-14079 VP5CK
1930-21088 L5V Argentina
2023-14094 9X4WW
2055-21091 XR8S
2259-14095 NH6XM
2301-7090  T42FRC
2322-14087 WA8RYW/YV5

Sunday 9
0352-7086  XR8S
0804-14079 VK3AMK
0822-21093 BD4DH
0832-21084 ZS1CM
0903-14085 K9AW/KH2
0905-21086 VK6GOM
0943-14072 PR2A
1016-14084 NP2E
1232-21084 3B8CF
1235-21082 ZS9C
1349-14073 HA3BSW
1351-14080 J28JY
1408-14087 S53MJ
1434-14092 IO4MKN
1522-14081 YB5NOF/8
1529-21078 PR2A
1715-14090 OH0M
1716-14089 S59AA
1849-3577  4U1ITU
2133-21082 LU9VET
2202-21092 YY4GLD
2204-28085 ZL2JON
2232-7083  T42FRC
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2236-7034 UN5PR

Monday 10
0109-14085 VP8CKN
0748-14083 TA2IO
0846-14089 ZL1AMO
1325-7035 PY4ZZ
1359-14090 ES1IG
1407-14086 OY4TN
1427-14088 VU2OXX
2002-14082 9X4WW
2237-7033 LW6DAK

Tuesday 11
1251-14084 PJ2MI
1709-14085 CT4KO
2249-14086 8P9NX

Wednesday 12
0038-14087 VP8CKN
1312-14082 RN3OQ
1313-14087 UA2AO
1346-14085 S21XX
1640-14083 CT4KO
1745-14083 LA5XGA

Thursday 13
0209-7083 ZS1JX
1049-14082 UA9TK
1406-14091 S21XX
1442-14089 IS0IGV
1923-14080 V5/ZS6YG
1937-14086 HK1LAQ
2013-14089 9X4WW QSL via ON5NT

Notes of Interest:
ST. PETER & PAUL ROCKS, ZY0 - Randy, WX5L regretfully reports that due to RFI problems which cannot be resolved on the island, it is highly unlikely that there will be any further RTTY operation on this trip.

SEYCHELLES, S7 - IK2GNW will operate as S79GN from 12 to 19 February on CW, SSB and RTTY. QSL direct to home CBA.

MAURITIUS, 3B - After his trip to S7, look for 3B8/IK2GNW between 20 February and 1 March.

EAST MALAYSIA, 9M - PB0ALB will operate as 9M8CC on Amtor, RTTY and SSB from 19 April to 6 June. Suggested times for Europe are: 3.5 Mhz at 000Z, 14 Mhz at 1200Z, and 21 Mhz at 110Z.

ST. MAARTIN, PJ8 - ND5S, KF5LG, W8EB and KB8ZXO will be operating PJ9/home call on all bands, CW, SSB and RTTY from 23 February to 8 March. QSL to home calls CBA.

The VK2SG RTTY DX Notes are also available on the Internet at reflector digital-dx at st.rim.or.jp . See also the OH2BUA Webcluster at URL http://www.clinet.fi/~jukka/webcluster.html

For next week's bulletin send your bandpass and notes of interest to Randy, WX5L at W5KSI.(hashsign)NOLA.LA.NA or e-mail: wx5l at communique.net

73 es good hunting de Jules W2JGR AT W5KSI.(hashsign)NOLA.LA.NA
e-mail: w2jgr at millcomm.com

ARLD009 DX news -- excerpts

This week's bulletin was made possible with info provided by Tedd, KB8NW, the OPDX Bulletin, the 599Rpt, Dennis, K7BV, Jack, W1WEF, the DXNL, the Yankee Clipper Contest Club PacketCluster Network, and Contest Corral from QST. Thanks to all.

GHANA, 9G. Steve, PA3GBQ, is QRV as 9G5BQ until early March. Lately, he has been found on 3514 kHz starting at 2200z and was heard as late as 2345z. QSL to PA3GBQ.

ARUBA, P4. Look for P40W to be QRV in the ARRL DX CW Contest as a Single Op, High Power, All Band entry. Check 160 and 80 meters on the hour or half hour.

ST. KITTS, V4. Alex, W2OX, will be QRV as V47KP from February 13 to early March. He will also be active in the ARRL DX CW and SSB, and CQ WW 160 Meter SSB, Contests. QSL via K2SB.

BURKINA FASO, XT. Dan, XT2DP, has been QRV on 80 meters around 3795 kHz at 2000z. QSL via WB2YQH. XT2AR is also QRV from Ouagadougou, and will be here until February 26. QSL via W4BYG.

CAMBODIA, XU. Robert, KE2FB, works at the US Embassy and is active as XU2FB on 80 through 10 meters. He uses CW, SSB and RTTY. He can also be found on 10 meter FM. QSL via N4JR.

Ohio/Penn DX Bulletin No. 292 -- excerpts

Thanks to the Northern Ohio Amateur Radio Society, Northern Ohio DX Association, Ohio/Penn PacketCluster Network, KE2VB, N2MAU, K4RB, W4BYG, NL7TB, WX7K, BV/N0IAT, 9K2HN, DJ5AV & DX News Letter, DL8OBC, EA5BY, EI6HB, F5SHQ, F6AJA, G4BUE & DX News Sheets, ON6TT, PS7AB, XE1KK, YV5AMH and ZL1ANJ for the following DX information.

D4, CAPE VERDE. Didier, 6W/F5OGL, and Christian, 6W1QV, will try to be active from here Februay 26th to March 4th.

J2, DJIBOUTI. Dominique, F5RYC, is reported to be heading back here and will be active as J28YC. QSL via F6EJI.

MU0, GUERNSEY. Mathieu, F5SHQ, reports to OPDX that he is now active from here with the callsign 'MU0ASP'. He will be there for a few months. He is active on 20, 30 and 40 meters mostly on CW.

WP2, VIRGIN ISLANDS (U.S.). Operators KE2VB, K2ZJ and K2ZL will be active as WP2Z during the ARRL DX Phone Contest (March 1-2nd). The WP2Z will be a Multi 2 entry for the contest.

ZL, NEW ZEALAND. Look for operators Tapani, OH5BM, and Martin,

ZL1ANJ, to be active as ZL1ANJ as a MultiOp-Single Transmitter enrty in the ARRL DX Phone Contest. Operations are planned to be on 80-10 meters.

ZK1, SOUTH COOK. The 'DX News Letter' reports that VE6JO is expected to be active from February 22nd until March 10th. They state he holds a valid licence, but he has to borrow equipment on the island.

COMING EVENTS

FEBRUARY	23rd	WYONG FIELD DAY - COME AND SEE US

SAGEM TELEPRINTER PART WANTED

VICTOR VK3BVJ IS LOOKING FOR A 'MODULE BOARD' FOR A SAGEM TX20 TELEPRINTER. IF YOU HAVE ONE OF THESE BOARDS FOR DISPOSAL YOU CAN EITHER SEND A MESSAGE TO COL VK2CTD AT VK2WI WHO WILL PASS IT TO VICTOR DURING THE SUNDAY CAST CALLBACKS. OR YOU CAN CONTACT VICTOR VK3BVJ QTHR.

ALSO YOU COULD BRING THE MODULE TO THE CENTRAL COAST FIELD DAY AND GIVE IT TO COL ON THE ANARTS STAND FOR ONWARD RELAY TO VICTOR.

Society information

The Society may be contacted at : PO Box 860, Crows Nest 2065 Australia, for such matters as membership and general enquiries. Enquiries can also be made by packet to the President (Col) VK2CTD at VKWI2, or the Secretary (Pat) VK2JPA at VK2WI.

News items may be sent to Broadcast Officer PO Box 60 Blacktown 2148 Australia, or fax to (02) 9672-3392, or by packet to VK2JPA at VK2WI.

Email addresses

Broadcast Officer : patl@pitt.conmusic.su.oz.au
or patl@extro.ucc.su.oz.au

President :

colin.davies@dse.com.au
or cdavies@sunink.com

The Society welcomes news items on any digital subjects from anywhere in the broadcast coverage area. We are looking for-ward to news from your areas to let other amateurs know what you are doing in the hobby. Hope to hear from you.

73s de Pat VK2JPA Broadcast Officer

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Dave Horsfall (VK2KFU) | dave@esi.com.au | VK2KFU @ VK2KFU.NSW.AUS.OC | PGP 2.6
Opinions expressed are mine. | D8 15 71 F9 26 C8 63 40 5E 63 5C 65 FC A0 22 99